

**Notice of Allowability**

Application No.

10/527,200

Examiner

Olumide T. Ajibade-Akonai

Applicant(s)

ISHII, YOSHIKAZU

Art Unit

2617

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 5/15/2006.
2. ☒ The allowed claim(s) is/are 1-5 and 7-9.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All    b) ☐ Some\*    c) ☐ None    of the:
  1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date \_\_\_\_\_
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_.

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1. The Art Unit location of your application in the USPTO has changed. To aid in correlating any papers for this application, all further correspondence regarding this application should be directed to Art Unit 2617.

### **DETAILED ACTION**

#### ***Allowable Subject Matter***

2. Claims 1-5 and 7-9 are allowed.

The following is an examiner's statement of reasons for allowance: Regarding claim 1, Sinivaara et al 20040202141 discloses a wireless LAN access authentication system in a network system comprising a plurality of wireless LAN network systems and a center station that controls said plurality of wireless LAN network systems in a centralized manner, each of said plurality of wireless LAN network systems comprising an access point section accessed by a radio terminal apparatus that transmits/receives a radio signal through a radio section and a gateway apparatus which relays transmission/reception of data signals and control signals between said access point sections, said center station comprising a center station gateway apparatus that relays transmission/reception of data signals and control signals between the gateway apparatuses of said plurality of wireless LAN network systems and an authentication server that performs access authentication on said radio terminal apparatus which has accessed said access point sections. Zhang et al 20040214570 discloses wherein the wireless LAN network systems comprising at least two access point sections accessed by a radio terminal apparatus that transmit/receive a radio signal through a radio section and a gateway apparatus which relays transmission/reception of data signals and control signals between said access point sections. Kallio et al 7,050,789 discloses

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distributing cryptographic keys used for encryption of a radio section through which said access-authenticated radio terminal apparatus carries out communication to said radio terminal apparatus and said access point section.

The instant invention discloses said wireless LAN access authentication system comprising: an access control section provided for each of said plurality of wireless LAN network systems for controlling the situation of access of said radio terminal apparatus in the own communication area to said authentication server and checking the presence/absence of access said radio terminal apparatus to said authentication server when said radio terminal apparatus moves a communication area of a new access point section; and a cryptographic key control section provided for each of said plurality of wireless LAN network systems for controlling cryptographic keys distributed from said authentication server and distributing, when said access control section confirms that said radio terminal apparatus which has moved to the communication area of the other access point section has already accessed said authentication server, the cryptographic key for said radio section through which said radio terminal apparatus carries out communication to said radio terminal apparatus and said new access point section in the area which said radio terminal apparatus has moved. The above novel features in combination with all the recited limitations of claims 1, 5, 7 and 9 are neither taught, fairly suggested nor made obvious by Sinivaara et al, Zhang et al, Kallio et al.

Claims 2-4 and 8 are allowable based on their being dependent on claims 1, 5, 7 and 9.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### ***Conclusion***

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Sharma et al 20030039234 discloses a system and method for secure network roaming.

Satarasinghe et al 20040268122 discloses a system and method for extending secure authentication using unique session keys derived from entropy generated by authentication method.

Lee et al 20040242228 discloses a method for fast roaming in a wireless network.

Lor et al 20040068668 discloses an enterprise wireless local area network switching system.

Gallagher 20020034298 discloses a LAN user protocol.

Wild et al 20040181692 discloses a method and apparatus for providing network service information to a mobile station by a wireless local area network.

Whelan et al 20030219129 discloses a system and method for providing WLAN security through synchronized update and rotation of WEP keys.

Hsu 20030235305 discloses a key generation in a communication system.

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Takayama et al 6,917,804 discloses a high-speed roaming method of wireless LAN.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Olumide T. Ajibade-Akonai whose telephone number is 571-272-6496. The examiner can normally be reached on M-F, 8.30p-5p.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph H. Feild can be reached on 571-272-4090. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

OA

  
JOSEPH FEILD  
SUPERVISORY PATENT EXAMINER